

# DIALOG SEARCH.....

```
s (virtual(2w)router?)  
    1855888    VIRTUAL  
    555373    ROUTER?  
S2        3832    S (VIRTUAL(2W)ROUTER?)  
  
? s s1 and (pipelin? (4w)router?)  
    6    S1  
    2271731    PIPELIN?  
    555373    ROUTER?  
    1216    PIPELIN?(4W)ROUTER?  
S3        0    S S1 AND (PIPELIN? (4W)ROUTER?)  
  
? S S2 AND (PIPELIN? (4W)ROUT?)  
Processing  
Processing  
    3832    S2  
    2271731    PIPELIN?  
    6191752    ROUT?  
    18852    PIPELIN?(4W)ROUT?  
S4        14    S S2 AND (PIPELIN? (4W)ROUT?)  
  
? s s4 not py>2002  
Processing  
Processing  
Processing  
Processing  
Processing  
Processing  
Processing  
    14    S4  
    88007358    PY>2002  
S5        11    S S4 NOT PY>2002  
  
? TYPE S5/3,K/ALL  
5/3,K/1 (Item 1 from file: 16) Links  
Gale Group PROMT(R)  
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06970027 Supplier Number: 58928060 (USE FORMAT 7 FOR FULLTEXT)
```

Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula

PC Week , p 90

Jan 24 , 2000

Language: English Record Type: Fulltext

Article Type: Product Announcement

Document Type: Tabloid ; General Trade

Word Count: 467

-

The portfolio is built on existing Lucent products, particularly its customer- premises equipment-based virtual private network routers, firewall-based VPN gateways, VPN clients and LSMS (Lucent Security Management Server) central security...

...provide site-to-site VPN services at T-1 speeds. It also integrates the Ascend Pipeline and SuperPipe remote access routers.

Lucent expanded on that initiative with new releases of the Pipeline and SuperPipe VPN software...

...0Integrates LSMS security software, Lucent's IPSec client and Xedia Access Point routersIntegrates the Ascend Pipeline and SuperPipe remote access routersAdds security policy management to the Pipeline and SuperPipe product linesPipeline and SuperAdds support for standard...

5/3,K/2 (Item 1 from file: 47) [Links](#)

Gale Group Magazine DB(TM)

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05512295 Supplier Number: 58928060 (USE FORMAT 7 OR 9 FOR FULL TEXT )

Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula

PC Week , 90

Jan 24 , 2000

Document Type: Product Announcement

ISSN: 0740-1604

Language: English Record Type: Fulltext

Word Count: 491 Line Count: 00045

The portfolio is built on existing Lucent products, particularly its customer- premises equipment-based virtual private network routers, firewall-based VPN gateways, VPN clients and LSMS (Lucent

Security Management Server) central security...

...provide site-to-site VPN services at T-1 speeds. It also integrates the

Ascend Pipeline and SuperPipe remote access routers.

Lucent expanded on that initiative with new releases of the Pipeline

and SuperPipe VPN software...

...0Integrates LSMS security software, Lucent's IPSec client and Xedia

Access Point routersIntegrates the Ascend Pipeline and SuperPipe remote access routersAdds security policy management to the Pipeline

and SuperPipe product linesPipeline and SuperAdds support for standard...

5/3,K/3 (Item 1 from file: 88) [Links](#)

Gale Group Business A.R.T.S.

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06192506 Supplier Number: 89073222

A delay model for router microarchitectures.(includes related article titled "What Is Flow Control") (Special Issue: Hot Interconnects VIII Symposium)(Cover Story)

Peh, Li-Shiuan; Dally, William J.

IEEE Micro , 21 , 1 , 26(9)

Jan-Feb , 2001

Document Type: Cover Story

ISSN: 0272-1732

Language: English Record Type: Abstract

Abstract: A router delay model is described that takes the pipelined nature of router architecture into account. The model is used for comparing the performance of wormhole and virtual-circuit routers.

Abstract:

5/3,K/4 (Item 2 from file: 88) [Links](#)

Gale Group Business A.R.T.S.

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05041675 Supplier Number: 53867883

Wormhole Routing Techniques for Directly Connected Multicomputer Systems.

MOHAPATRA, PRASANT

ACM Computing Surveys , 30 , 3 , 374(1)

Sept , 1998

ISSN: 0360-0300

Language: English Record Type: Fulltext; Abstract

Word Count: 19309 Line Count: 01549

...because of the multiple and simultaneous resource possession as well as

the chained blockings during pipelined routing. However, approximate analytical models based on simplifying assumptions can give

reasonable performance estimates.(1)

5...the opt-y algorithm is deadlock-free and optimal with respect to

the number of virtual channels per router and number of routing restrictions on the virtual channels. The optimally fully adaptive routing algorithm...

5/3,K/5 (Item 1 from file: 148) [Links](#)

GALE GROUP TRADE & INDUSTRY DB

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11692214 Supplier Number: 58928060 (USE FORMAT 7 OR 9 FOR FULL TEXT )

Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula

PC Week , 90

Jan 24 , 2000

Document Type: Product Announcement

ISSN: 0740-1604

Language: English

Record Type: Fulltext

Word Count: 491 Line Count: 00045

The portfolio is built on existing Lucent products, particularly its customer- premises equipment-based virtual private network routers, firewall-based VPN gateways, VPN clients and LSMS (Lucent Secur ity Management Server) central security...

...provide site-to-site VPN services at T-1 speeds. It also integrates the Ascend Pipeline and SuperPipe remote access routers.

Lucent expanded on that initiative with new releases of the Pipeline and SuperPipe VPN software...

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5/3,K/6 (Item 1 from file: 275) [Links](#)

Gale Group Computer DB(TM)

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02365839 Supplier Number: 58928060 (Use Format 7 Or 9 For FULL TEXT )

Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula

PC Week , 90

Jan 24 , 2000

Document Type: Product Announcement

ISSN: 0740-1604

Language: English Record Type: Fulltext

Word Count: 491 Line Count: 00045

The portfolio is built on existing Lucent products, particularly its

customer- premises equipment-based virtual private network routers, firewall-based VPN gateways, VPN clients and LSMS (Lucent

Secur ity Management Server) central security...

...provide site-to-site VPN services at T-1 speeds. It also integrates the

Ascend Pipeline and SuperPipe remote access routers.

Lucent expanded on that initiative with new releases of the Pipeline and SuperPipe VPN software...

...0Integrates LSMS security software, Lucent's IPSec client and Xedia

Access Point routersIntegrates the Ascend Pipeline and SuperPipe remote access routersAdds security policy management to the Pipeline

and SuperPipe product linesPipeline and SuperAdds support for standard...

5/3K/7 (Item 1 from file: 348) [Links](#)

Fulltext available through: [Order](#) [File](#) [History](#)

## EUROPEAN PATENTS

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01057641

### ROUTER TABLE LOOKUP MECHANISM

MECHANISMUS ZUM NACHSCHLAGEN EINER ROUTERTABELLE

MECANISME A CONSULTATION DE TABLE DE ROUTEUR

Patent Assignee:

- CRAY RESEARCH, INC.; (578485)  
655A Lone Oak Drive; Eagan, Minnesota 55121; (US)  
(Proprietor designated states: all)

Inventor:

- PASSINT, Randal, S.  
9550 167 Street; Chippewa Falls, WI 54729; (US)
- GALLE, Michael, B.  
1112 South Springer Road; Los Altos, CA 94024; (US)
- THORSON, Greg  
1119 Sweet Water Close; Altoona, WI 54720; (US)

Legal Representative:

- Beresford, Keith Denis Lewis et al (28274)  
2-5 Warwick Court High Holborn; London WC1R 5DH; (GB)

	Country	Number	Kind	Date	
Patent	EP	1032887	A1	20000906	(Basic)
	EP	1032887	B1	20020306	
	WO	9926163		19990527	
Application	EP	98959468		19981116	
	WO	98US24468		19981116	
Priorities	US	971587		19971117	

Designated States:

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LI; LU; MC; NL; PT; SE;

International Patent Class (V7): G06F-015/173

NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	200210	1166
CLAIMS B	(German)	200210	1035
CLAIMS B	(French)	200210	1356
SPEC B	(English)	200210	10611
Total Word Count (Document A) 0			
Total Word Count (Document B) 14168			
Total Word Count (All Documents) 14168			

Specification: ...direction, and provide a new message direction via an exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/8 (Item 2 from file: 348) [Links](#)

Fulltext available through: [Order File History](#)

EUROPEAN PATENTS

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01053793

VIRTUAL CHANNEL ASSIGNMENT IN LARGE TORUS SYSTEMS  
ZUWEISUNG VON VIRTUELLEN KANALEN IN GROSSEN TORUSSYSTEMEN  
AFFECTATION DE CANAUX VIRTUELS DANS DES SYSTEMES PRESENTANT DES  
TORES IMPORTANTES

Patent Assignee:

- CRAY RESEARCH, INC.; (578485)  
655A Lone Oak Drive; Eagan, Minnesota 55121; (US)  
(Proprietor designated states: all)

Inventor:

- PASSINT, Randal, S.  
9550 167 Street; Chippewa Falls, WI 54729; (US)
- THORSON, Gregory M.  
1119 Sweet Water Close; Altoona, WI 54720; (US)
- GALLES, Michael, B.  
1112 South Springer Road; Los Altos, CA 94024; (US)

Legal Representative:

- Beresford, Keith Denis Lewis et al (28273)  
BERESFORD & Co. 2-5 Warwick Court, High Holborn; London WC1R 5DH; (GB)

	Country	Number	Kind	Date	
Patent	EP	1031096	A1	20000830	(Basic)
	EP	1031096	B1	20020724	
	WO	9926162		19990527	
Application	EP	98957995		19981116	
	WO	98US24422		19981116	
Priorities	US	971591		19971117	

Designated States:

DE; FR; GB;

International Patent Class (V7): G06F-015/173

NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			
Available Text	Language	Update	Word Count

CLAIMS B	(English)	200230	1224
CLAIMS B	(German)	200230	1012
CLAIMS B	(French)	200230	1545
SPEC B	(English)	200230	10726
Total Word Count (Document A) 0			
Total Word Count (Document B) 14507			
Total Word Count (All Documents) 14507			

Specification: ...direction, and provide a new message direction via an exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/9 (Item 1 from file: 349) [Links](#)

Fulltext available through: [Order](#) [File](#) [History](#)

PCT FULLTEXT

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00495077

HYBRID HYPERCUBE/TORUS ARCHITECTURE  
ARCHITECTURE HYBRIDE HYPERCUBE/TORIQUE

Patent Applicant/Patent Assignee:

- CRAY RESEARCH INC

Inventor(s):

- PASSINT Randal S

- THORSON Greg

- GALLES Michael B

	Country	Number	Kind	Date
Patent	WO	9926429	A2	19990527
Application	WO	98US24493		19981117
Priorities	US	97971588		19971117

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

JP, AT, BE, CH, CY, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE

Publication Language: English

Filing Language:

Fulltext word count: 13693

Detailed Description:

...provide a new message direction via an I 0 exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/10 (Item 2 from file: 349) [Links](#)

Fulltext available through: [Order](#) [File](#) [History](#)

PCT FULLTEXT

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00494811

ROUTER TABLE LOOKUP MECHANISM

MECANISME A CONSULTATION DE TABLE DE ROUTEUR

Patent Applicant/Patent Assignee:

- CRAY RESEARCH INC

Inventor(s):

- PASSINT Randal S

- GALLES Michael B

- THORSON Greg

	Country	Number	Kind	Date
Patent	WO	9926163	A1	19990527
Application	WO	98US24468		19981116
Priorities	US	97971587		19971117

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,

GR, IE, IT, LU, MC, NL, PT, SE

Publication Language: English

Filing Language:

Fulltext word count: 12179

Detailed Description:

...provide a new message direction via an 1 5 exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four inicropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/11 (Item 3 from file: 349) [Links](#)

Fulltext available through: [Order](#) [File](#) [History](#)

PCT FULLTEXT

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00494810

**VIRTUAL CHANNEL ASSIGNMENT IN LARGE TORUS SYSTEMS**  
**AFFECTATION DE CANAUX VIRTUELS DANS DES SYSTEMES PRÉSENTANT DES**  
**TORES IMPORTANTES**

Patent Applicant/Patent Assignee:

- CRAY RESEARCH INC

Inventor(s):

- PASSINT Randal S

- THORSON Greg

- GALLES Michael B

	Country	Number	Kind	Date
Patent	WO	9926162	A1	19990527
Application	WO	98US24422		19981116
Priorities	US	97971591		19971117

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,  
GR, IE, IT, LU, MC, NL, PT, SE

Publication Language: English

Filing Language:

Fulltext word count: 12558

Detailed Description:

...direction, and provide a new message direction via an exit port ID. Since routing is pipelined with link arbitration, the routing tables I 0 must include instructions as to how to traverse to the next router...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

